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BILLS RECEIVABLE.		BILLS PAYABLE.	
Advertising.....	\$75.00	(Either paid in December or estimated.)	
1919 dues unpaid.....	75.00	Publisher's bills, Sept.-Dec.....	\$1,450.00
		Register of members.....	270.00
	\$150.00	December <i>Annals</i> subvention.....	75.00
		Init. fees due to sections.....	90.00
		President's office.....	15.00
		Manager's office.....	15.00
		Editor-in-chief's office.....	30.00
		Secretary-treasurer's office.....	130.00
		Printing annual ballot, programs, etc.	125.00
		Additional postage.....	50.00
			<u>\$2,250.00</u>

If to the balance on 1919 business shown in this report, \$4,139.34, there be added the amounts of bills receivable, \$150 and there be subtracted the estimated amount of bills payable, \$2,250, there results an estimated final balance on 1919 business of approximately \$2,040. Of this surplus, about \$1,000 was passed over to the Association by the management of the MONTHLY when the Association was organized, and this fund is kept by the Council of the Association as a reserve fund. The result for the year's finances is favorable, except for the fact faced one year ago but now made real, viz., an increased rate in the cost of printing dating from August 1, 1919, the exact rates not as yet having been announced by the publishers; this with the steadily decreasing amount derived from advertising makes it necessary to exercise all due care with regard to the expenses of the organization.

W. D. CAIRNS, *Secretary-Treasurer.*

THE NOVEMBER MEETING OF THE ILLINOIS SECTION.

The first program meeting of the Illinois Section of the Mathematical Association of America was held in room 418 Natural History Building, University of Illinois, on November 22, 1919. There were fifty-nine persons present including the following twenty-four members of the Association: Blumberg, Camp, R. D. Carmichael, Coble, Comstock, Crathorne, Emch, Foberg, Garlough, Kempner, Kustermann, Lytle, McNeill, Bessie I. Miller, G. A. Miller, Risley, Rosenbach, G. H. Scott, Shaw, Slaughter, Steimley, E. L. Thompson, Townsend, and Wahlin.

The following program was given: (1) Address: H. E. Slaughter, President of the Mathematical Association of America. (2) Round Table Discussion of the Topic:—Freshman Mathematics as related to varying admission credits from the high schools. Discussion led by C. E. Comstock, Bradley Polytechnic Institute, M. W. Coultrap, Northwestern College, G. C. Heritage, Crane Junior College. (3) Address: The Training of Mathematics Teachers, E. B. Lytle, University of Illinois. Discussed by Malcolm McNeill, Lake Forest College, Bessie I. Miller,

Rockford College, W. J. Risley, James Millikin University. (4) Address: How Mathematicians Work, Henry Blumberg, University of Illinois. (5) Business Meeting.

President Slaught sketched the history of mathematics teacher organizations in the United States leading up to the need and opportunities for service of this new Illinois Section. He made an appeal for the hearty coöperation of all college teachers of mathematics in Illinois.

Professor Comstock gave in detail the mathematics preparation of freshmen in Bradley Polytechnic Institute and some other Illinois colleges. He recommended better provision for students entering college with only one unit credit in high-school algebra, a more uniform standard for one unit in algebra, more attention to solid geometry in colleges, and less emphasis upon complicated symbolic manipulations. The general discussion of admission credits was lively and full of interest; all seemed to feel that algebra preparation was very unsatisfactory and numerous pleas for less formal work and more emphasis of general principles and methods were made.

By request, Dr. Lytle read his Ann Arbor address on the training of mathematics teachers; this address appears in full in the present number of the MONTHLY. The discussion put emphasis on the point of giving teachers more explicit training in the use of libraries, and on more independent preparation and forceful presentation of reports on special topics; Miss Miller offered a definite scheme for carrying out and grading such work.

Professor Blumberg described numerous methods of work, both humorous and serious, used by certain well-known mathematicians and concluded with a few generalizations on effective methods of work in the field of mathematics.

The old officers were reëlected for one more year; Chairman, J. A. FOBERG, Crane Junior College, Secretary-Treasurer, E. B. LYTLE, University of Illinois, members of Executive Committee, C. E. COMSTOCK, Bradley Polytechnic Institute, G. T. SELLEW, Knox College, L. S. SHIVELY, Mount Morris College. The question of the place and time of the next meeting was discussed and finally referred to the Executive Committee with power.

At the close of the program a group took luncheon together at the Illinois Union building.

ERNEST B. LYTLE, *Secretary-Treasurer.*

1820

First meeting of the Royal Astronomical Society, London, January 12; V. A. Puiseux, French geometer and analyst, born April 16; John Casey, Irish mathematician, born May 12; J. P. E. de Fauque de Jonquières, French mathematician and vice-admiral, born July 3; W. J. Rankine, Scotch engineer, born July 5; J. C. Houzeau de la Haye, Belgian bibliographer of astronomy, born October 7.